# **CSWC Operational Period Summary** 1800 March 9 to 0600 March 10 2014



# **SITUATION SUMMARY**

SOC / Inland REOC remains activated in support of 2014 Drought

# 6.9 Magnitude Earthquake, Humboldt County (New)

- On 3/09/14 at 2218 hours a verified 6.9 Magnitude Earthquake occurred 40 miles off the coast of Eureka, Humboldt County
- No tsunami advisory, watch or warning is in effect for California
- There have been no reports of injuries or damages from any local government partners
- See Northern California Significant Events slide for further information

### **Near Term Outlook:**

A storm system will move through Northern California Sunday and Monday. This will bring moderate rain and high elevation snow to the northern half of the state.

# **Longer Term Outlook:**

After the current precipitation ends sometime Monday, the rest of the week looks to be dry, as a strong high pressure area will develop over much of the West.

# Significant Weather

- Red Flag Warning in effect from 1000 to 2100 hours Tuesday for areas in San Bernardino County
- Fire Weather Watch in effect from Tuesday morning through Tuesday evening for portions of Imperial, Riverside, and San Bernardino Counties.

# **WEATHER**

### **WEATHER SYNOPSIS BY REGION:**

### NORTHERN CALIFORNIA AND CENTRAL COASTAL AREAS:

### **Eureka Weather:**

Moderate to heavy rain will expand southward across Northwest California tonight as a front slowly passes through. After some lingering showers early Monday, much of the week looks dry and mild as strong high pressure returns.

### San Francisco Weather:

A weak cold front will spread light rain across the North Bay this morning and down to portions of the San Francisco Bay region. After it passes, dry weather will return for the rest of the week. Daytime temperatures will slowly warm starting tomorrow with much-above normal readings slated for the weekend.

### CENTRAL CALIFORNIA AND SOUTHERN SAN JOAQUIN VALLEY

### **Sacramento Weather:**

Showers will taper off across Northern California by this afternoon as a frontal system moves south and east of the area. High pressure will bring a return of dry weather along with milder temperatures for the rest of the week. Breezy northerly winds are likely Tuesday.

## **Hanford Weather:**

A weak weather disturbance will pass across the northern part of Central California this morning bringing just a chance of light precipitation. High pressure and dry weather will prevail this week with temperatures warming to well above normal by the weekend.

# **WEATHER SYNOPSIS BY REGION: (Con't)**

### **SOUTHERN CALIFORNIA:**

# **Los Angeles Weather:**

A weak upper trough will pass to the north today brining a few high clouds and slightly cooler temperatures to the Los Angeles area. High pressure will build from the west while an upper low approaches from the northeast by Wednesday. This should bring Santa Ana winds to the region by Tuesday and continue through mid-week and will raise temperatures above normal across the coast and coastal valleys.

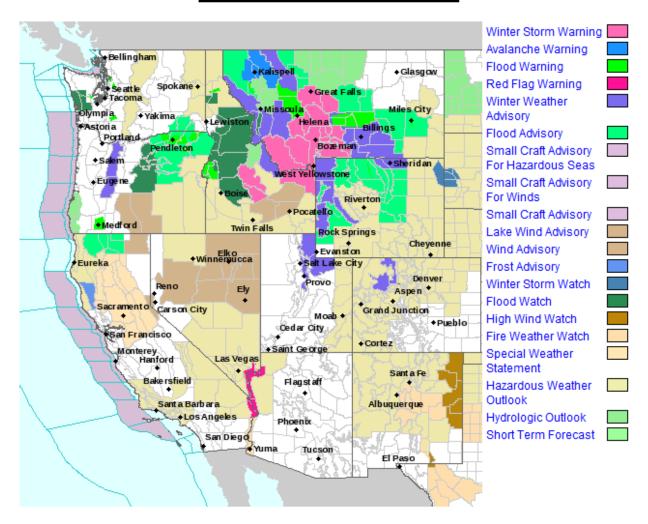
# Extreme Southwestern California Including Orange, San Diego, Western Riverside and Southwestern San Bernardino Counties:

An eastbound low pressure off the Pacific will suppress the warm high pressure ridge along the West Coast today. Onshore flow will increase redeveloping the marine layer temporarily and decrease daytime temperatures. On Tuesday the winds will turn offshore and become strong and gusty through and below passes and canyons Tuesday night through Wednesday. The offshore flow will weaken Thursday and Friday. An unseasonably strong high pressure ridge appears likely this weekend. Add some rebuilding offshore flow and it will become quite warm.

### **Southeast California Weather:**

Mostly dry weather will continue over the Southeast California deserts this week. A weather system and weak front will move into the region Tuesday before slowly exiting Thursday, but little to no precipitation is expected. An increase in winds along the lower Colorado River Valley can be expected during this time. Temperatures will remain slightly above normal through the end of the week with highs in the lower 80s across the deserts. Even warmer temperatures are expected by the coming weekend.

# STATE WEATHER MAP



Last map update: Mar, 10th 2014 at 5:58:18 am MDT

# **FIRE ACTIVITY**

# **Preparedness Levels:**

# National Preparedness Level 1

### **Northern California**

Preparedness Level 1 Multi-Agency Coordination System MACS Mode 2

### Southern California

Preparedness Level 2 Multi-Agency Coordination System MACS Mode 2

# **California Fire Potential & Weather Maps**

### Southern California 7 Day Significant Fire Potential

http://psgeodata.fs.fed.us/7day/action/forecast/8

**Northern California 7 Day Significant Fire Potential** 

http://psgeodata.fs.fed.us/7day/action/forecast/10

**California Fire Weather Map Watches and Warnings** 

http://www.wrh.noaa.gov/firewx/main.php

**NWS California River Forecast Center:** 

http://www.cnrfc.noaa.gov/

# **No Significant Fire Activity to Report**



# **CAL OES ACTIVATIONS**

# Cal EOC Incident - 2014 Drought

- The SOC is activated at Level 2 in support of the Drought State of Emergency from 0800-1700 hours daily.
- The Inland REOC is activated at Level 2 from 0800-1700 Monday through Friday or as needed.
- The Southern REOC is activated at Level 1.
- The Santa Barbara County OA EOC is activated at Level 2 to be handled by the duty officer for the purpose of monitoring activities and gaining situational awareness. The operational period is 0800-1700 hours.

# SIGNIFICANT EVENTS / ACTIVITY

# Cal EOC Incident – 2014 Drought

# **Situational Summary: (No Change)**

- Strong winter storms hit California beginning Wednesday 2/26/14 through Sunday 3/2/14 bringing heavy rain and snow across the state. Both Northern and Southern California received significant rain, and the Sierra Nevada's gained substantial snowpack. Northern California continues to experience showers throughout the week. Even with this significant precipitation, the state continues to be in a severe drought. Reservoir levels remain low despite these recent storms. The drought could result in severe impacts to municipal water supplies, wells, agriculture (plants and livestock) and firefighting capabilities for several months. The State Operations Center (SOC) continues to be activated to monitor the situation statewide, and support regional and local operational areas.
- The Drought Task Force leaders traveled to Merced for another of its local meetings on Tuesday, 3/4/14. The Taskforce continues to meet weekly to take actions that conserve water and coordinate state response to the drought.
- Sixteen counties and four Native American tribes have proclaimed a local state of emergency as a
  result of the drought. The California Public Utilities Commission regulates all for-profit water utilities in
  the state and has ordered private water utilities to implement 20% voluntary water use reductions.
- The recent snowpack survey conducted on 2/27/14, recorded California snowpack at 24% of normal. A
  more recent update using automated devices after the recent storm (March 6) shows snowpack at 33%
  of normal.
- DWR has announced that water essential for health and safety will be delivered through the state
  water project in spite of the zero allocation policy. Deliveries will be boosted if storms produce enough
  rain and snow to increase reservoir storage and the snow pack.

# Cal EOC Incident - 2014 Drought (Cont.)

# **Situational Summary: (Cont.)**

- On March 4<sup>th</sup> and 5<sup>th</sup> the Groundwater Resources Association of California held a conference at McClellan Park in Sacramento to discuss groundwater issues and water management and strategies addressing challenges of Sustainability and Drought in California. It was organized in cooperation with *The U.S. Society for Irrigation and Drainage Professionals (USCID)*
- Cal OES continues to gather drought-related costs from state agencies and local governments.



# Cal EOC Incident - 2014 Drought (Cont.)

### **Current Conditions:**

- Despite two large storms over the past four weeks, heavy rain and snow would have to fall throughout California very frequently from now until May to reach average annual rain and snowfall levels.
- Now more than two-thirds of the way through the rainy season, many areas in the northern part of
  the state are at least 15 inches short of average annual precipitation. So it would take more than a
  half an inch of rain from Redding to Fresno every other day until May to get back to average
  precipitation in the watersheds that supply most of California's drinking and irrigation water. Even
  with such precipitation, California would remain in drought conditions, due to low water supplies in
  reservoirs from the two previous dry years.
- A moderate amount of rain has occurred across California for much of February and into early March. Many areas have received normal to above-normal amounts of precipitation for this time period. However, when viewed across the time scale of the water year (e.g., since October 1, 2013), much of California has received only about 50% of normal precipitation for that time period. Further, snowpack across the Sierra is only about 30% of normal for this time of year. Additionally, water supply forecasts continue to be much below normal for the April-July time period.

# **Current Drought Updates:**

 2014 Drought Response Report will be updated again on 03/10/14 unless the situation warrants.

<u>Declarations/Resolutions/Proclamations:</u> (No Change)

### State:

01/17/14 – January 17, 2014, Governor Edmund G. Brown proclaimed a State of Emergency and directed state officials to take all necessary actions to prepare for these drought conditions.

# **Declarations/Resolutions/Proclamations: (Cont.)**

# **County Declarations/Resolutions/Proclamations:**

| Declarations/Resolutions/Procla | mations   |                                |                        |  |
|---------------------------------|-----------|--------------------------------|------------------------|--|
| Inland Region                   |           |                                |                        |  |
| County                          |           | Request                        | Reaffirmation Received |  |
| Glenn                           | 1/30/2014 | State and Federal relief       |                        |  |
| Kern                            | 1/14/2014 | Gubernatorial and Presidential |                        |  |
| Kings                           | 1/14/2014 | State and Federal assistance   |                        |  |
| Madera                          | 1/28/2014 | No specific request            |                        |  |
| Merced                          | 3/6/2014  | No specific request            |                        |  |
| Modoc                           | 3/5/2014  | No specific request            |                        |  |
| San Joaquin                     | 1/28/2014 | No specific request            | 3/4/2014               |  |
| Sutter                          | 2/11/2014 | Gubernatorial and Presidential |                        |  |
| Tulare                          | 2/4/2014  | CDAA and Federal assistance    | 3/3/2014               |  |
| Tuolumne                        | 2/4/2014  | CDAA and Federal assistance    |                        |  |
| Yuba                            | 2/18/2014 | Gubernatorial and Presidential |                        |  |
| Coastal Region                  |           |                                |                        |  |
| County                          |           | Request                        | Reaffirmation Received |  |
| Lake                            | 3/6/2014  | CDAA and Federal assistance    |                        |  |
| Mendocino                       | 1/7/2014  | No specific request            |                        |  |
| Sonoma                          | 2/25/2014 | CDAA and Federal assistance    |                        |  |
| Southern Region                 |           |                                |                        |  |
| County                          |           | Request                        | Reaffirmation Received |  |
| Inyo                            | 1/28/2014 | CDAA                           |                        |  |
| Santa Barbara                   | 1/17/2014 | No specific request            |                        |  |

# **Declarations/Resolutions/Proclamations:**

# **City / Tribe / Special District Declarations/Resolutions/Proclamations:**

| City/Tribe/Special District |   |  |  |  |
|-----------------------------|---|--|--|--|
| 2/6/2014                    | Local conservation and funding measures   |  |  |  |
| 1/29/2014                   | Enact District conservation measures  |  |  |  |
| 1/30/2014                   | Enact Tribal emergency authorities  |  |  |  |
| 2/18/2014                   | Declare a Stage I Water Emergency   |  |  |  |
| 2/18/2014                   | Enact Tribal emergency authorities  |  |  |  |
| 2/4/2014                    | Enact District conservation measures  |  |  |  |
|                             |   |  |  |  |
|                             | Request   |  |  |  |
| 1/20/2014                   | Enact Tribal emergency authorities  |  |  |  |
| 1/29/2014                   | Enact Tribal emergency authorities  |  |  |  |
| 1/7/2014                    | Declare a Phase V Water Emergency   |  |  |  |
| 1/7/2014                    |   |  |  |  |
| 2/4/2014                    | Declare a Stage II Water Emergency  |  |  |  |
| 1/28/2014                   | Declare a Stage II Water Emergency  |  |  |  |
| 2/4/2014                    | Declare a Stage I Water Emergency   |  |  |  |
|                             |   |  |  |  |
|                             |   |  |  |  |
|                             | Doguest   |  |  |  |
|                             | Request   |  |  |  |
| 2/12/2014                   | Declare a Stage I Water Emergency   |  |  |  |
| 3/4/2014                    | Declare a Stage II Water Emergency  |  |  |  |
|                             | 1/29/2014<br>1/30/2014<br>2/18/2014<br>2/18/2014<br>2/4/2014<br>1/20/2014<br>1/29/2014<br>1/7/2014<br>1/7/2014<br>2/4/2014<br>1/28/2014<br>2/4/2014 |  |  |  |



# **Counties Which Have Established a Drought Task Force (DTF)**

# Information as of 3/4/14

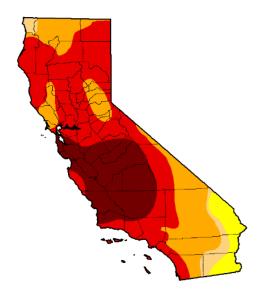
| Inland Region                              |                   |                   |  |  |  |  |  |
|--|-------------------|-------------------|--|--|--|--|--|
| County Previous Meetings Upcoming Meetings |                   |                   |  |  |  |  |  |
| Amador                                     | 3/2/2014          |                   |  |  |  |  |  |
| Butte                                      | 2/18/2014         | 5/19/2014         |  |  |  |  |  |
| Fresno                                     |                   | 3/10/2014         |  |  |  |  |  |
| Madera                                     | 2/18/2014         | 3/11/2014         |  |  |  |  |  |
| Merced                                     |                   | 3/19/2014         |  |  |  |  |  |
| Modoc                                      | 2/25/2014         |                   |  |  |  |  |  |
| Nevada                                     | 1/22/2014         | 2/28/2014         |  |  |  |  |  |
| Placer                                     | 2/19/2014         | 3/12/2014         |  |  |  |  |  |
| Plumas                                     | 2/24/2014         | 3/17/2014         |  |  |  |  |  |
| Sacramento                                 | 2/21/2014         | 3/7/2014          |  |  |  |  |  |
| San Joaquin                                | 2/19/2014         | 3/19/2014         |  |  |  |  |  |
| Siskiyou                                   | 2/19/2014         | •                 |  |  |  |  |  |
| Solano                                     |                   |                   |  |  |  |  |  |
| Stanislaus                                 | 3/3/2014          | 3/19/2014         |  |  |  |  |  |
| Sutter                                     |                   | 3/13/2014         |  |  |  |  |  |
| Tehama                                     |                   |                   |  |  |  |  |  |
| Tulare                                     |                   | 3/10/2014         |  |  |  |  |  |
| Tuolumne                                   | 2/28/2014         | 3/28/2014         |  |  |  |  |  |
|  |                   |                   |  |  |  |  |  |
| Coastal Region                             |                   |                   |  |  |  |  |  |
| County                                     | Previous Meetings | Upcoming Meetings |  |  |  |  |  |
| Mendocino                                  | 2/26/2014         |                   |  |  |  |  |  |
| Monterey                                   |                   |                   |  |  |  |  |  |
| San Mateo                                  |                   | 3/18/2014         |  |  |  |  |  |
| Santa Clara                                | 2/27/2014         |                   |  |  |  |  |  |
|  |                   |                   |  |  |  |  |  |
| Southern Region                            | on                |                   |  |  |  |  |  |
| County                                     | Previous Meetings | Upcoming Meetings |  |  |  |  |  |
| San Luis Obispo                            |                   | 3/11/2014         |  |  |  |  |  |
| Santa Barbara                              |                   | 3/12/2014         |  |  |  |  |  |



# U.S. Drought Monitor California

# March 4, 2014

(Released Thursday March 6, 2014)
Valid 7 a.m. Eastern



| Week                      | Date       | Nothing | D0-D4  | D1-D4 | D2-D4 | D3-D4 | D4    |
|---------------------------|------------|---------|--------|-------|-------|-------|-------|
| Current                   | 3/4/2014   | 0.00    | 100.00 | 94.56 | 90.82 | 65.89 | 22.37 |
| Last Week                 | 2/25/2014  | 0.00    | 100.00 | 94.56 | 90.82 | 73.83 | 26.21 |
| 3 Months Ago              | 12/3/2013  | 2.61    | 97.39  | 94.15 | 82.53 | 27.59 | 0.00  |
| Start of<br>Calendar Year | 12/31/2013 | 2.61    | 97.39  | 94.25 | 87.53 | 27.59 | 0.00  |
| Start of Water<br>Year    | 10/1/2013  | 2.63    | 97.37  | 95.95 | 84.12 | 11.36 | 0.00  |
| One Year Ago              | 3/5/2013   | 0.03    | 99.97  | 47.37 | 26.96 | 0.00  | 0.00  |

# Intensity:

D0 - Abnormally Dry

D1 - Moderate Drought

D2 - Severe Drought

D3 - Extreme Drought

D4 - Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying <u>text summary</u> for forecast statements.

## Author(s):

David Miskus, NOAA/NWS/NCEP/CPC



# Northern California - Significant Activity

# 6.9 Magnitude Earthquake, Humboldt County

### Situation

- On 3/09/14 at 2218 hours a verified 6.9 Magnitude Earthquake occurred 40 miles off the coast of Eureka, Humboldt County.
- No tsunami advisory, watch or warning is in effect for California
- There have been no reports of injuries or damages from any local government partners
- · Aftershocks are to be expected, however, appear to be subsiding

# Analysis

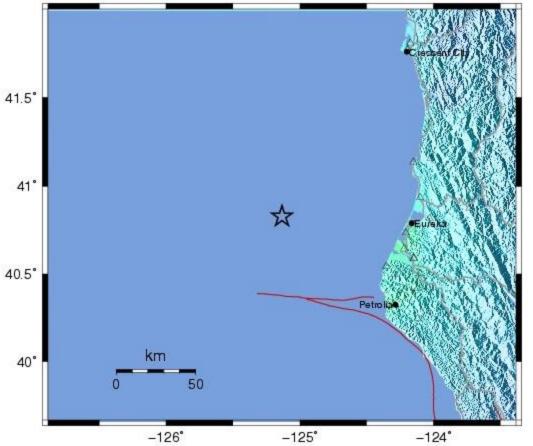
- Per California Geological Survey, the epicenter was west of the Cascadia Subduction Zone and there are no unusual tide gauges in Crescent City and Humboldt Bay at this time
- Per USGS, historical earthquakes in the area have caused secondary hazards such as landslides and liquefaction

# Response

- A Cal OES Coastal Region representative will be dispatched to Humboldt County to gather information and perform a damage assessment during daylight hours
- Cal OES Coastal Region and Earthquake and Tsunami Program duty officers continue to monitor the situation

# USGS ShakeMap : 78.5 km (48.8 mi) WNW of Ferndale, CA Mon Mar 10, 2014 05:18:13 AM GMT M 6.9 N40.83 W125.13 Depth: 16.6km ID:72182046





Map Version 13 Processed Mon Mar 10, 2014 11:18:52 AM GMT

| INSTRUMENTAL<br>INTENSITY | 1        | 11-111 | IV    | ٧          | VI     | VII         | VIII      | DK.     | Xx         |
|---------------------------|----------|--------|-------|------------|--------|-------------|-----------|---------|------------|
| PEAK VEL (cm/s)           | <0.07    | 0.4    | 1.9   | 5.8        | 11     | 22          | 43        | 83      | >160       |
| PEAK ACC (%g)             | <0.1     | 0.5    | 2.4   | 6.7        | 13     | 24          | 44        | 83      | >156       |
| POTENTIAL<br>DAMAGE       | none     | none   | none  | Very light | Light  | Moderate    | Mod/Heavy | Heavy   | Very Heavy |
| PERCEIVED<br>SHAKING      | Not felt | Weak   | Light | Moderate   | Strong | Very strong | Severe    | Violent | Extreme    |

Scale based upon Wald, et al.; 1999



# **CAL OES MISSIONS**

# **Drought Related Missions**

• 2014-Inland-2185 Tuolumne County does not have a water master or any alternative resources to assist in determining the health of their ground water system. The County is requesting state agency expertise to assist with this determination.

# **Ongoing Cal OES Missions**

- 2014-SREOC-2453 On 3/5/2014, San Bernardino County Fire OES is requesting communications support for Baker to Vegas Challenge Cup Relay on March 20, 2014. Cal OES T-Comm representative is coordinating the required resources.
- 2014-LAW-2450 Santa Barbara County Sheriff's Department is requesting ten Search and Rescue personnel that are EMS certified to assist with a special event. Resource will be needed from 1100 hours till Midnight on April 8, 2014. San Luis Obispo County Sheriff's Department will be responding with requested resources.

# **Ongoing Cal OES Missions (Cont.)**

- 2014-LAW-2401 2/28/14, 1510 hours, Santa Cruz Sheriff's Department requested the assistance of the Santa Clara County Sheriff's Department historic human remains detection (HRD) K-9 Teams. Santa Clara County SO agreed to support the mission. LDO notified the Cal OES K-9 Coordinator of the resource request. The search is scheduled for 03/12/14.
- 2014-LAW-2380 The San Bernardino County Sheriff's Department as the Regional Mutual Aid Coordinator is requesting the 9th Civil Support Team of the California National Guard for support during the running of the Auto Club Speedway's NASCAR Races to be held from Friday, March 21, 2014 through Sunday, March 23, 2014. The CNG has accepted the mission and will deploy the requested resources.
- 2014-LAW-2307 California Department of Fish and Wildlife (DFW) has requested California Air National Guard to assist in the movement of equipment and fuel between Farallon National Wildlife Refuge and the mainland. Approximately 3-4 sorties are expected with an HH-60G helicopter any one day between 2/24-28/2014 or before 3/15/2014. After receiving the official letter of request from USFWS on behalf of the California DFW, Cal OES LDO has changed the target date of the mission to 2/27/14, the county to Marin as Stinson Beach was Identified as the primary staging area and the resource to an HH-60.

# **Ongoing Cal OES Missions (Cont.)**

• 2014-SOC-2111 Mission is to test the Cascadia Subduction Zone (CSZ) air bridge concept by air transporting 7 passengers from OES and 1 CANG logistics planner on 13 May 2014 from Mather to the State Staging Area (SA) in Redding, to one POD in Del Norte and one POD in Humboldt, to the Redding State SA, and return to Mather. Passengers will discuss actions at the Redding SA and at each OA POD while they are at each location. The air bridge is a critical component to CSZ response and recovery. It is imperative this concept is tested to ensure response teams can be successfully transported into the effected region and the affected Operational Areas' are able to receive aircraft at designated PODs.

# **UPCOMING EVENTS, TRAINING, EXERCISES**

# Diablo Canyon Power Plant, Rehearsal / Full Scale Exercise

Diablo Canyon Power Plant in San Luis Obispo will be hosting two full scale Hostile Action Based exercises this Spring. A dress rehearsal exercise will be held on April 16, 2014 and a FEMA evaluated exercise will held on May 21, 2014. This is part of the required biennial demonstration of our ability to protect the public from a radiological incident at the nuclear power plant.

### 2014 Golden Guardian

Planning is currently underway for the Governor's 2014 exercise series. The series will test the California Cascadia Subduction Zone Earthquake and Tsunami Response Plan developed by FEMA Region IX and Cal OES

- Logistics Rehearsal of Concept Drill April 2, 2014
- REOC Communications Functional Exercise March 27, 2014

# **The Tsunami Warning Communications Test**

Live code, activating EAS will be on the North Coast in Del Norte, Humboldt, Mendocino Counties on Wednesday 3/26/2014 (between 11:00 and Noon PDT).

 Del Norte County will be asking residents of the community to participate in a full evacuation exercise on March 26 between 1100 – 1300 hours PDT.



### Mission:

We protect lives and property, build capabilities, and support our communities for a resilient California.

We achieve our mission by serving the public through effective collaboration in preparing for, protecting against, responding to, recovering from, and mitigating the impacts of all hazards and threats.